

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Attorney Docket No. Bishop 56-3-2

In re application of: David John Bishop, Herbert R. Shea, and Donald Weiss

Serial No.: 10/766,449

Group No.: 3641

Filed: 01/27/04

Examiner: Gabriel J. Klein

Matter No.: 990.0588

Phone No.: 571-272-8229

For: Fuse For Projected Ordnance

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 CFR § 1.56, this is an Information Disclosure Statement (IDS) for the above-captioned U.S. patent application. An IDS Form PTO-1449 listing references is enclosed herewith and forms a part hereof. Submission of references is not an admission that those references are in fact prior art.

Certification Under 37 CFR § 1.704(d)

- [] Each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of this statement.

Certification Under 37 CFR § 1.97(e)

- [] Each item of information contained in this statement was either (1) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement or (2) not known to any individual designated in § 1.56(c) more than three months prior to the filing of this statement.

* * * * *

06/05/2006 EAYALEW1 00000016 500782 10766449
Certification Under 37 CFR 1.8

01 FC:1806 180.00 DA

Date of Deposit

5/30/06

I hereby certify that this paper and any accompanying papers or fees are being deposited with the U.S. Postal Service with sufficient postage as first class mail under 37 CFR 1.8 on the date indicated above and addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Gerry Marrero
(Name of person mailing)

Gerry Marrero
(Signature of person mailing)

Fee Under 37 CFR § 1.97(c)

[X] The fee for submission of this IDS under § 1.97(c) is \$180.00 as set forth in § 1.17(p).

Petition Under 37 CFR § 1.97(d)

[] This is a petition requesting consideration of an IDS under § 1.97(d). The petition fee for submission of this IDS under § 1.97(d) is \$180.00 as set forth in § 1.17(p).

Provision of Copies of References

[X] A copy of each of the listed references is enclosed herewith and forms a part hereof.

[X] A translation of the abstract and relevant portions of Reference(s) BC is enclosed herewith and forms a part hereof.

[] A copy of the International Search Report from a corresponding PCT application is enclosed herewith.

[X] A copy of the European Search Report from a corresponding EPO application is enclosed herewith.

[] A copy of the final U.S. office action for U.S. patent application no. _____ filed on _____ as attorney docket no. (Case name or our ref.).

[] The above-captioned U.S. patent application is a

- [] continuation
- [] divisional
- [] continuation-in-part

application of U.S. application serial number _____, filed on _____ as Attorney Docket No. _____. Each of the listed references was previously cited by or submitted to the Office in the prior application. The above-captioned U.S. patent application relies upon the prior application for an earlier filing date under 35 U.S.C. 120. Pursuant to § 1.98(d), copies of the listed references are not being provided with this IDS.


Authorization To Charge Deposit Account

[X] Authorization is given to charge the deposit account of **Mendelsohn & Associates, P.C. Deposit Account No. 50-0782** for any fee under § 1.97(c) or § 1.97(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449 form as confirmation that each of the documents has been considered.

Respectfully submitted,

Date: 5/30/06
Customer No. 46850
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Enclosures

CUSTOMER NO. 46850

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Attorney Docket No. Bishop 56-3-2

In re application of: David John Bishop, Herbert R. Shea, and Donald Weiss

Serial No.: 10/766,449

Group Art Unit:

3641

Filed: 01/27/04

Examiner:

Gabriel J. Klein

Matter No.: 990.0588

Phone No.:

571-272-8229

For: Fuse for Projected Ordnance

VERIFICATION OF A TRANSLATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I, the below named translator, hereby declare that:

My name and post office address are as stated below;

That I am knowledgeable in the English language and in the language of the below identified document and I believe the attached English translation to be a true and complete translation of the identified portions of this document.

The document for which the attached English translation is being submitted is French Publication No. 2,760,266. This foreign language document is being filed in the PTO along with this document.

ABSTRACT:

The invention relates to devices for accurate and safe detonation at a plurality of locations. The invention employs a central detonation unit comprising a pyrotechnically-driven laser and a plurality of detonators (505) activatable via an optical path. A plurality of optical fibers (504) link the central detonation unit to the detonators. An optical switch (502) permits the selective deactivation of certain fibers so as to permit modification of the shape of the shock wave produced by the detonators.

Thus, the invention permits multi-location detonation that is accurate and insensitive to external disturbances.

TRANSLATIONS OF RELEVANT PORTION (page 6, line 20, to page 7, line 6:

"It is sometimes necessary, due to external factors that are determined right before detonation, to orient the direction of concentration of the shock wave, to successfully handle the situation in which the position relative to the explosive mass isn't determined until that very moment. Accordingly, the invention proposes the following improvement:


"It is known that such a modification of the shock wave can achieve a selection, prior to detonation, of only a portion of the detonators, so as to obtain the desired effect. To accomplish this, the invention proposes to supply optical fibers 504 via an optical switch 502, which itself

directly receives optical luminous energy provided by source 501. Such switches are well known in the art and can be achieved in different ways, for example, in this case, taking into account the level of energy used and the fact that the device is constructed so as to be used only once, to initiate the decoupling of the portion of optical fibers connected to the detonators that are to remain inactive.

"The system of optical switch 502 operates based on control signals transmitted by link 503, provided, for example, by the same central control unit 101 as that which serves to initiate the operation of detonation safety device 102."

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of the Translator: Kevin M. Drucker
Company Name: Mendelsohn & Associates, P.C.
Address: 1500 JFK Boulevard, Suite 405
Philadelphia, PA 19102

Signature of the Translator:  Date: 5/26/06

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Rev. 2-32) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

Bishop 56-3-2
APPLICANT

10/766,449

David John Bishop, Herbert R. Shea, and Donald Weiss
FILING DATE GROUP

01/27/04

3641

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5,229,542	07/1993	Bryan et al.	102	491	
	BB	5,052,300	10/1991	Josse	102	201	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	BC	2 760 266	09/1998	France	F 42 B	3/113	Abstract and Relevant Portions	
	BD	EP 0 807 841 A2	11/1997	Europe	G02B	26/02		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.